

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method of performing instrument tracking on an image comprising:

collecting ~~at least one image a plurality of images~~;

computing at least one of a position and orientation of at least one instrument for said ~~at least one collected image plurality of images~~; and

displaying ~~at least one of each image in~~ said collected ~~image plurality of images to create an animation by scrolling through said plurality of images, wherein~~ said at least one position and orientation of said at least one instrument ~~is projected on each said image and at least one image of said at least one instrument located at said at least one of a position-and-orientation.~~

2. (Currently Amended) The method of Claim 1 ~~comprising collecting at least a plurality of 2D fluoroscopic images wherein said plurality of images comprise a plurality of 2D fluoroscopic images.~~

3. (Currently Amended) The method of Claim 2 ~~1~~ comprising continuously scrolling through said plurality of ~~said collected~~ images using a display.

4. (Cancelled)

5. (Currently Amended) The method of Claim 1 comprising calibrating ~~said~~ at least one image of said collected plurality of images such that said at least one position and orientation of said at least one image may be accurately displayed.

6. (Original) The method of Claim 5 comprising selecting at least one calibrated image to be a current image.

7. (Original) The method of Claim 6 comprising computing said at least one position and orientation for said at least one instrument for said current image.

8. (Currently Amended) The method of Claim 1 comprising collecting said ~~at least one plurality of~~ images using at least one moveable collection device.

9. (Original) The method of Claim 8 wherein said moveable collection device comprises a C-arm coupled to an imaging device.

10. (Currently Amended) A method of performing instrument tracking on a series of images using an imaging device, comprising:

collecting a series of 2D images;

calibrating said series of 2D images such that at least one of a position and orientation of at least one instrument may be accurately displayed in ~~at least one each~~ image of said series of images;

selecting at least one image of said series of images to be a current image;

computing said at least one position and orientation of said at least one instrument for said current image;

projecting said at least one position and orientation within said current image; ~~and~~ displaying said current image; ~~and~~

repeating said selecting, computing, projecting, and displaying steps to create an animation by scrolling through said series of 2D images.

11. (Original) The method of Claim 10 comprising collecting said series of 2D images using a collection device that moves.

12. (Original) The method of Claim 11, wherein said collection device comprises a C-arm coupled to the imaging device.

13. (Currently Amended) The method of Claim 13 10 wherein said series ~~if of~~ 2D images comprise a series of 2D fluoroscopic image images.

14. (Currently Amended) The method of Claim 10 comprising continually scrolling through said series of 2D images in a display.

15. (Currently Amended) The method of Claim 14 comprising projecting said at least one position and orientation of said at least one instrument into at least one image of said series of 2D images.

16. (Original) The method of Claim 10 comprising incrementing at least said current image.

17. (Original) The method of Claim 16 comprising recomputing said at least one position and orientation of said at least one instrument.

18. (Currently Amended) An apparatus for performing instrument tracking on a series of images, the apparatus comprising:

~~at least one a~~ collection device that moves and is adapted to collect ~~the set a~~ series of images;

~~at least one a~~ processing device communicating with at least said ~~moveable~~ collection device and adapted to create an animation by produce-a scrolling said series of images including at least one of a position and orientation of at least one instrument and at least one image of said at least one instrument located at said at least one of a position and orientation; and

an output communicating with at least said processing device and adapted to display ~~at least one image of~~ said scrolling series of images.

19. (Original) The apparatus of Claim 18 wherein said collection device that moves comprises at least one C-arm.

20. (Currently Amended) The apparatus of Claim 18 wherein said collection device that moves comprises at least one transmitter device and at least one detector devices device.